

Comparisons of Job Characteristics

Focus Occupation: [Inspectors, Testers, Sorters, Samplers, and Weighers \(51-9061\)](#)

Associated Occupation: [Geological and Petroleum Technicians \(19-4041\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 49

Focus Occupation: [Inspectors, Testers, Sorters, Samplers, and Weighers \(51-9061\)](#)

Associated Occupation: [Geological and Petroleum Technicians \(19-4041\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mathematics	9.2	14.8	8.0	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	14.4	6.0	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.0	4.2	<<	Extensive education and/or training may be required
Geography	3.9	11.6	1.3	<<	Extensive education and/or training may be required
Physics	4.3	11.2	2.9	<<	Extensive education and/or training may be required
Chemistry	4.8	10.7	4.4	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: [Inspectors, Testers, Sorters, Samplers, and Weighers \(51-9061\)](#)

Associated Occupation: [Geological and Petroleum Technicians \(19-4041\)](#)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Science	4.5	9.8	3.9	<<	Extensive development of skills in this area may be required
Mathematics	6.2	7.8	5.1	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	6.1	5.5	<	A higher skill level may be required
Equipment Selection	3.3	4.7	1.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94			
Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) Associated Occupation: Geological and Petroleum Technicians (19-4041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	13.0	10.1	<<	Extensive improvement in abilities may be required
Oral Comprehension	12.5	12.6	12.2	0	Current ability level may be sufficient
Oral Expression	12.4	12.3	11.9	0	Current ability level may be sufficient
Near Vision	11.1	11.1	10.5	0	Current ability level may be sufficient
Inductive Reasoning	10.2	10.7	9.0	<	Some improvement in abilities may be required
Information Ordering	9.9	10.7	8.4	<	Some improvement in abilities may be required
Written Expression	9.8	10.7	8.1	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	10.4	9.4	<	Some improvement in abilities may be required
Category Flexibility	9.0	10.3	9.6	0	Current ability level may be sufficient
Flexibility of Closure	7.8	9.9	8.5	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	8.4	4.7	<<	Extensive improvement in abilities may be required
Number Facility	6.3	8.4	4.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 74
Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) Associated Occupation: Geological and Petroleum Technicians (19-4041)		
Work Activities	Exclusivity of Activity	
Collect samples for testing	58	
Communicate technical information	4	
Direct and coordinate activities of workers or staff	3	
Distinguish colors	44	
Install/connect electrical equipment to power circuit	57	
Maintain records, reports, or files	5	
Measure, weigh, or count products or materials	17	

Operate industrial or nondestructive testing equipment	84
Perform safety inspections in industrial, manufacturing or repair setting	32
Prepare reports	8
Prepare safety reports	60
Read technical drawings	7
Record test results, test procedures, or inspection data	48
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use computers to enter, access or retrieve data	3
Use hazardous materials information	35
Use knowledge of metric system	39
Use oral or written communication techniques	1
Use precision measuring tools or equipment	17
Use quality assurance techniques	61
Use spreadsheet software	18

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 31

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)
Associated Occupation: Geological and Petroleum Technicians (19-4041)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Electrochemical measuring instruments and accessories	9
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Spectroscopic equipment	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.